MINING	APPLICATION
NO	
Date	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN
(Other forms may be used in lieu of MR 2, provided they contain the same information)

1.	Name of Applicant or Company Rush Valley Enterprises, Inc.				
2.	Proposed type of operation Mining and Refining				
3.	(a) Prior Land Use(s) Mining and Grazing				
	(b) Current Land Use(s)Mining and Grazing				
	(c) Possible or Prospective Future Land Use(s) Grazing				
4.	What vegetation exists on the land proposed to be affected				
	See Attached Sheet				
	(a) Types and Estimated Percent cover or density:				
	Average 19.6%				
5. What is the range pH of soil before mining? 8.2 pH					
	Name of Person or Agency and method of determining pH Ford Chemical				
	Company & Utah State University (See attached sheets)				
6.	Site elevation above sea level				
7.	In case of coal, oil shale, and bituminous sandstone:				
	Principal seam(s) and thickness(es) N/A				
8.	Estimated duration of mining operations 10-20 years				
9.	Has overburden, waste or rejected materials been classified as acid or alkali producing? () Yes (X) No Does the above material being moved have any other characteristics affecting revegetation? NO				
0.	Will any underground workings or aquifers be encountered? () Yes (χ) No Describe				
	Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (X) No If yes, describe the quality of water being discharged. None				

- 11. Describe specifically a detailed procedure for:
 - (a) The mining sequence
 - (b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
 - (c) The procedure for site preparation including removing trees and brush.
 - (d) The method for removing and stockpiling topsoil or disturbed materials.
 - (e) The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic material.
 - (f) A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe:

- (a) Typical cross-section of regrading.
- (b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- (c) What type of soil treatment will be utilized.
- (d) The method of drainage control for the final regraded area.
- (e) Maximum grading slope.

Private Contractor

Other (specify)

Will Mulch be used? No

Name

Type

TESTING
Describe method for testing stability of reclamation fill material.
On-site visual inspection of slopes, highwalls and back-filled areas
conducted to ensure stability Describe method for the testing of soil that is intended to support
Treatment and Seeding
Describe any soil treatment employed as an aid to revegetation Application of nitrogen and phosphorus fertilizers to stimulate early establishment of revegetation species.
Describe surface preparation of areas intended to support vegetation:
Surficial material suitable as a growing medium shall be re-distributed
over backfill and contoured or terraced in such manner as to promote re-
vegetation establishment and success.
REVEGETATION
Revegetation to be completed by:
(X) Operator with Consultation () Hydroseeding () Aerial Seeding

) Conventional or Rangeland Drilling

1bs.

) Other (specify)

Rate/Acre

STATE OF UTAH
COUNTY OF SALT LAKE
I,ARLON JACOBS, having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.
Signed: ARLON JACOBS, President
Taken subscribed and grown to before me the reducing I authority
in my said county, this 28th day of August, 1980. Notary Public: Was A. Brodfells My Commission Expires: 42 463
Notary Public: Eva V. Goodfells
My Commission Expires: 12-1-82
PLEASE NOTE:
Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows:
"Information relating to the location, size, or nature of the deposit and marked confidential by the operator, shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section 40-8-21."
Is confidential information contained herein?
YES Also, (Initial)
NO(Initial)
Sections desired to be maintained as confidential information -
ALL

MINING AND RECLAMATION PLAN

11 (a) The mining sequence

The mining sequence will follow the surface operation type and specifically the strip and open pit type.

The mining sequence will follow the proposed operations as outlined in the sub-headings of this question II and specifically (d), (e) and (f).

The equipment to be used in this operation will be scrapers, track-loaders with rippers and trucks.

Restoration of operation will be done with scrapers, dozers, compactors and trucks.

(b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.

The construction and maintaining of access roads will be done by grading a 20-foot wide path and establishing a crown and natural drainage ditches on either side. If the existing soils will not compact, then the residue from the mining operation will be used and if the residue will not compact, then road base will be used to develop a hard surface for the roads.

The roads will be maintained with a road grader and water wagon.

- (c) The procedure for site preparation including removing trees and brush. Please refer to sub-heading (d) of this question No. 11.

 Since there are no trees on this site but only weeds and sage brush, the preparation will be a grubbing process only where by the growth will be put in piles for burning by permission of the local authority.
- (d) The method for removing and stockpiling topsoil or disturbed materials. Prior to any major excavation, all surficial soil material suitable for sustaining plant life will be segregated and stockpiled in such manner as to minimize erosion by wind and hydrologic action. Stockpiles will be created so that unnecessary compaction of material shall be minimized and where slopes shall not exceed the critical angle of repose. (Reasonable precautions will be exercised so as to insure that contamination by undesirable materials will be held to a minimum.)
- (e) The method for the placement or containment of all disturbed materials to include the method for handling of all acid or alkali-producing and toxic materials.

All disturbed materials not immediately involved in the mining and milling process will be localized into waste piles or deposited as fill in inactive open cuts. All toxic or alkali-producing soils will be properly and reasonably isolated so as conformance with all appropriate regulations of Federal Government and State Division of Health are met.

(f) A procedure for final stabilization of disturbed materials.

Operator 1 consult with soil conservati service before final stabilization of disturbed materials program is initiated.

Operator proposed to regrade all waste piles, soil piles and fills to rounded configurations where slopes will be less than critical angle of repose. All high wall cuts will be backfilled to achieve a stabilized slope of 45° or less. All slopes shall be regraded so as to minimize erosion and safety hazards.

Operator proposes that a diverse mixture of re-vegetative plant species be reseeded by rangeland drill method in not less than tenacre tracts. Such seeding and reclamation of the site in question to progress as mining operation also progresses and reverts land to the revegetative program.

GRADING AND REGRADING

11 (a) Typical cross-section of regrading.

Please refer to sub-headings (b), (c), (d) and (e) of this question No. 11 (Grading and Regrading).

Since only a minute amount of materials (minerals) will be extracted from the operation, the site will be approximately restored to its original conditions.

(b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.

Where possible, topsoil and/or upper horizon material shall be evenly re-distributed over disturbed areas in thickness equal to or greater than surface soil depth prior to commencement of mining operation.

(c) What type of soil treatment will be utilized.

After topsoil or upper horizon material has been re-distributed and contoured to accepted standards as already specified herein, site will receive two directional harrowings and fertilizations prior to reseeding.

(d) Method of draining control for the final regraded area.

In re-distributing surface and fill materials, consideration will be given to topographical design in order that all drainage channels may be perpetuated. Operator shall insure that the property will have adequate surface draining, drainage structures and ditching so land may revert to a generally suitable condition for continued use.

(e) Maximum Grading Slope

Operator will assure that all disturbed and recontoured slopes shall not exceed 45° .

Type:		Rate/Acr	re	lbs.		
Pevegotation Dla	a and Calada					
Revegetation Plan and Schedule - Rate/ Planting Facing Season						
Species	Acre	Planting Location	Facing N-S-E-W	Season to be replanted		
Agropyron Crestatum	5 1bs.	A11	All	Fall		
Agropyron Trichophorum	11 1bs.	A11	A11	Fall		
Elymus Junceous Agropyron	12 1bs.	A11	A11	Fall		
Intermedium	10 lbs.	A11	A11	Fall		
+		A11	A11	FA11		
		<u>d until species</u> ar		? Yes, Livestock		
could be the be	ginning of th	ne 3rd or 4th grow	ving seasons.			
ill irrigation b	e used: () Yes (X) No T	уре			
escribe maintena elease is grante	d	es for revegetati				
ing at least 709	% of surround	ding representativ	e plant commu	nities as		
determined by a	ccontad inver	tony mothods and	whoma suffici	ont sunficial		
accermined by a	ccepted miver	itory methods and	where suilities	ent surficial		
		over solid rock ou				